

Data sheet of ALUWEDO®—Aluminum Honeycomb Panel

A) Description

① General characteristics

- a. Meet thermal movement requirement
- b. Without any mechanical damage on the panel surface, easily de-mountable and replaceable without damage to surrounding panels
- c. Compatible with a range of structures
- d. Allow horizontal, vertical or slant installation

② Workman ship characteristics

- a. CNC roll forming method, fully release internal stress of material to ensure structural stability, size precision, no coating damage
- b. CNC automatic gluing, precisely control glue amount and even thickness for each panel to ensure adhesion strength
- c. CNC hot pressing composite, automatically control pressing temperature and time ensure panel strength and flatness
- d. All the panels are customized in winsom factory, no second fabrication on site.

B) Manufacturer

① Production capacity (base on standard flat panel)

With 2 professional production lines for composite panel

A line: maximum panel size 9000mm L x 1500mm W, daily output 900m²;

B line: maximum panel size 12000mm L x 2000mm W, daily output 1800m²;

Our current production capacity: 83000m²/month, annual output 1000,000m²

C) Aluminum honeycomb panel

Brand	ALUWEDO®	Product	aluminum honeycomb panel
Item No	WD-03	Overall thickness	30mm
Joint type	Silicone or open	Joint width	10mm

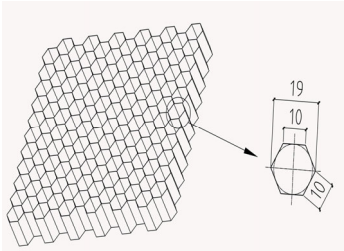
1: Outer skin

Material	AA3003		
Thickness	1.0mm		
Physical properties	Tensile strength(R_m): 145-195MPa		
	Yield Stress \geq 115MPa		
	Elongation $A_{50_{mm}} \geq 4\%$		
	PVDF with 15 years guarantee (from PPG)		
	<u>Items</u>	<u>Test Method</u>	<u>Properties</u>
	Color difference	AAMA 2605-05 ASTM D2244-11	$\Delta E \leq 2.0$
	Gloss	AAMA 2605-05 ASTM D523-08	Gloss: ± 7

Coating	Thickness	AAMA 2605-05	2 layers coating $\geq 25\mu\text{m}$ 3 layers coating $\geq 30\mu\text{m}$
	Dry adhesion	AAMA 2605-05	No peeling
	Wet adhesion	AAMA 2605-05	No peeling
	Boiling water adhesion	AAMA 2605-05	No peeling
	Impact resistance	AAMA 2605-05	No peeling
	Falling sand abrasion	AAMA 2605-05 ASTM D 968-05	Abrasion coefficient: ≥ 40 L/mil
	Muriatic acid resistance	AAMA 2605-05	No blistering or other visual change
	Mortar resistance	AAMA 2605-05	No peeling or other visual change
	Nitric acid resistance	AAMA 2605-05	$\Delta E \leq 5.0$
	Detergent resistance	AAMA 2605-05	No peeling blistering or other visual change
	Window cleaner resistance	AAMA 2605-05	No peeling blistering or other visual change

Color	RAL international color
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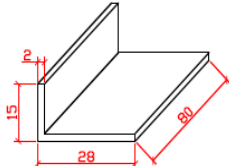
2. Adhesive: 2 part high temperature cured polyurethane glue (from Germany Henkel)

3. Core: Hexagonal honeycomb structure		
Material	AA3003	
Cell thickness	0.076mm	
Specification	Diameter: 19mm; cell size : 10mm*10mm; cell height: 28.5 mm	

4. Inner skin

Material	AA3003 H44
Thickness	0.7mm
Physical properties	Tensile strength(R_m): 145-195MPa
	Yield Stress ≥ 115 MPa
	Elongation $A_{50_{mm}} \geq 4\%$
Coating	POLY (5 μm -8 μm)

5. Accessories

1) Clamp		
Material	6063-T5	
Coating	Anodized AA15	
Length	28 x 15 x 2mm , L=80mm	

D) Standard of ALUWEDO aluminum honeycomb panel WD-03

Weight	Less than 6kg/m ²
Fire resistance	A1 (non - combustible) (GB8624-2006, -EN13501-1:2018)
Certificate of flame logo	Meet GB8624-2006 《performance requirements and identification of combustion for public place fire retardant products and components . Meet EN13501-1:2018 fire classification of construction products and building elements part 1.
Formaldehyde	Meet the mandatory standard of GB 18580-2001 《 Limit of formaldehyde emission from wood-based panels and finishing products for interior decoration 》 , release amount of formaldehyde: E1 level, can be used for indoor directly
Environmental certification	Obtain the business standards of credit of state environmental protection building materials
U value	5.1w/m ² .k
Panel size	Length ≤12000mm Width ≤2000mm Overall thickness: 30mm
Tolerance	Length: (L≤6000mm) ±2mm; (L>6000mm)±3mm Width: ±1.0 Thickness: -0.5mm/+1.0mm Flatness: 1mm/m Diagonal line: (L ≤6000mm):2, (L >6000mm):3

E) Fixing details of Aluwedo WD-03 System

